Synology®

Disk Station DS109

Feature-rich 1-bay SATA NAS Server for Workgroups and Offices

Key Features

- Easy-to-use
- Cool and Quiet
- Power-Saving (9W~19W)

Shipped with Disk Station Manager 2.2 that provides:

- AJAX-Based Management Interface
- Remote File Management with a Web Browser
- Mail Station add-on with one-step installation
- IP camera support
- Website Hosting with PHP+MySQL Support
- USB Printers Sharing
- 3rd-Party Application Integration

And more...

Synology Disk Station DS109 is designed to provide users with a flexible solution to share files and increase productivity. Packed with the Synology Disk Station Manager 2.2, it delivers ease of use and variety of features. Furthermore, the optional Synology 2.5" Disk Holder provides an easy way for users to deploy a 2.5" hard drive on the DS109, bringing the library quietness, power saving, and higher reliability for the DS109.

Effortless File Sharing & Backup

Synology Disk Station is designed for data storage and sharing among Windows, Mac, and Linux. Seamless file sharing across different operation systems is an effortless process.

Synology File Station 2 offers an innovative user interface with drag-n-drop and right-click capability allowing users not familiar with FTP to easily access files with a web browser.

Synology Data Replicator 3 allows Windows users to back up desktop data to the Synology Disk Station. Immediate, Sync, and Scheduled Backup are fully-supported.

Synology Local Backup helps to safeguard data by backing up to external hard drives via either USB or eSATA interfaces with flexible scheduling options.

Office Applications

Synology Mail Station add-on provides a one step installation and enables Synology Disk Station to be a mail server that supports Outlook-like Web mail, SMTP, POP3, and IMAP.

Synology Web Station with Virtual Host option allows users to host up to 30 websites on one single Synology Disk Station. The built-in PHP+MySQL provides the ability to create interactive websites without complicated settings.

Synology Disk Station supports two USB printers simultaneously, and the Add Printer Wizard simplifies setup process with a wizard.

3rd-Party Application Integration

Following "Synology NAS Server 3rd-Party Apps Integration Guide" on Synology website, users can customize their Synology Disk Station by installing their favorite applications.

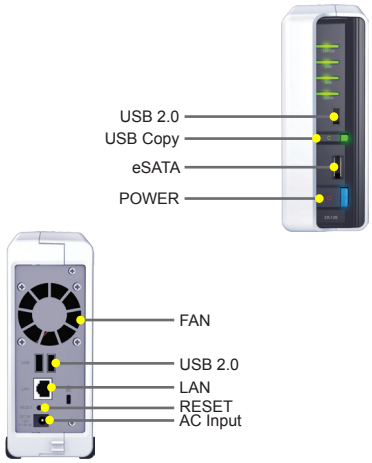
Eco Friendly

Synology Disk Station is designed and developed perpetually with the concept of energy saving. Compared with average PC counterparts, Synology Disk Station consumes a relatively low amount of power and hibernates when not in use. This not only helps to save energy but also extends the lifespan of the hard disk.

Synology Disk Station truly earns the title of "green product" because of the unique Scheduled Power On/Off feature, and the smart fan design effectively cools down the system with minimum power consumption, yet keeps the system quiet on operation.

Finally, all Synology products are produced with RoHS compliant parts and packed with recyclable packing materials. Synology recognizes its responsibility as a global citizen and is continually working to reduce the environmental impact of the products we create.

CONNECTIONS & BUTTONS



Technical Specifications

Hardware
- CPU: 1.2GHz, 16bit@DDR800
- Memory: 128 MB
- Internal HDD[1]: 1X 3.5" SATA(II) or 1X 2.5" SATA/SSD using Synology Disk Holder Type A
- External HDD Interface: 3X USB 2.0 ports, 1X eSATA port
- Size: 160mm X 218mm X 63mm
- Weight: 0.81kg
- LAN: 1X Gigabit
- Fan: 1X (50mmX50mm)
- Noise Level[2]: 19.9 dB(A)
- Power Recovery
- AC Input Power Voltage: 100V to 240V
- Power Frequency: 50Hz to 60Hz, Single Phase
- Max Internal Capacity: 2 TB
- Max Supported IP Camera #: 8[7]
- Operating Temperature: 5°C to 35°C (40°F to 95°F)
- Storage Temperature: -10°C to 70°C (15°F to 155°F)
- Relative Humidity: 5% to 95%RH
- Maximum Operating Altitude: 10,000 feet

Power Consumption[3]
- 19 W (Access); 9 W (Hibernation)

Certification
- FCC Class B, CE Class B, BSMI Class B

Networking Protocols
- CIFS
- AFP (3.1)
- FTP
- NFS
- Telnet/SSH

Windows ADS Domain Integration
- ADS Support
- Domain users login via Samba/AFP/FTP
- Synology Data Replicator 3 for Domain Users

Security
- Firewall
- Auto-Block
- "FTP over SSL (explicit)" or "FTP over TLS (explicit)"
- Encrypted Network Backup
- Encrypted rsync
- HTTPS Connection

File System
- EXT3
- FAT (External Disk Only)
- NTFS (External Disk Only)

File Sharing
- Max User Accounts: 1,024
- Max Groups: 128
- Max Shared Folder: 256
- Max Concurrent Connections (SAMBA, FTP, AFP): 64

Utilities
- Synology Assistant
- Synology Data Replicator 3
- Synology Download Redirector
- Add Printer Wizard

Applications
- Surveillance Station 3
- Photo Station 3
- File Station 2
- Audio Station
- Web Station
- PHP/MySQL
- Download Station 2
- iTunes Server

iPhone Applications
- DS photo
- DS audio

Packages
- Mail Station
- phpMyAdmin
- SqueezeCenter
- Webalizer

DLNA/UPnP Media Server Support
- DLNA Certified
- Sony PS3, Microsoft Xbox360
- Audio Format: AAC, FLAC, M4A, MP3, Ogg Vorbis, PCM, WAV, WMA, WMA VBR, WMA PRO, WMA Lossless
- Video Format: 3GP, 3G2, ASF, AVI, DAT, DivX, DVR-MS, ISO, M2T, M2TS, M4V, MKV, MP4, MPEG1, MPEG2, MPEG4, MTS, MOV, QT, SWF, TP, TRP, TS, VOB, WMV, XviD
- Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO
- Playlist Format: WPL, M3U

iTunes Server Support
- Audio Format: MP3, M4A, M4P, WAV[4], AIF[4]
- Video Format: M4V, MOV, MP4
- Playlist Format: M3U, WPL

Audio Station Support
- USB Mode: (Audio) AAC, FLAC, M4A, MP3, Ogg Vorbis, WMA, WMA VBR (Playlist) M3U, WPL (Internet Radio) SHOUTcast, Radioio
- Streaming Mode: (Audio) MP3 (Playlist) M3U, WPL

Photo Station 3 Support
- Video Format[8]: 3G2, 3GP, ASF, AVI, DAT, DivX, FLV, M4V, MOV, MP4, MPEG, MPG, QT, WMV, XviD, RM[5], RMVB[5], VOB[5]
- Image Format: BMP, JPG (jpe, jpeg), GIF

Management
- AJAX-based Management UI
- Sub-folder Privileges Setting
- User Home
- Applications privileges Setting
- BitTorrent Port Range Setup
- BitTorrent DHT Support
- Changing Management UI Ports
- CIFS Recycle Bin
- Download Station Bandwidth control
- Download Station Port Range Setup
- Editable HTTP Error Page
- Email Alert Message
- Email Notification for New User
- Package Management
- External HDD Hibernation (eSATA, USB)
- Scheduled Power On/Off
- Firmware Upgrade
- FTP passive port range
- Hide-able Shared Folder
- Internal HDD Hibernation
- Removable Default Shared Folder
- System Temperature
- DDNS
- PPPoE
- Resource Monitor
- SMS Notification
- SNMP
- UPS Management (Over USB 2.0)
- User Quota
- Web-based Download Station 2

RAID/Storage Management
- iSCSI

Backup Solutions
- Network Backup
- Local Backup
- Desktop Backup (using Synology Data Replicator 3)
- Time Machine Backup (Mac)
- 3rd-Party Backup Support

Supported Clients
- Windows 2000 onward
- Mac OS X 10.3 onward
- Linux

Supported Browsers
- Internet Explorer 6, 7
- Internet Explorer 8
- Firefox 3
- Firefox 3.5
- Safari 3 (Mac)
- Safari 4 (Mac)

Supported Mobile Devices (Photo Station, File Station)
- iPhone OS 2.2.1 and onward
- Windows Mobile (IE Mobile or Opera 9.0 onward)
- Symbian OS 9.1, S60 3rd Edition onward

Printer Support[6]
- Max Printer #: 2
- Supported Protocols: LPR, CIFS, AppleTalk

Languages
- English, German, French, Italian, Spanish, Danish, Norwegian, Swedish, Dutch, Russian, Japanese, Korean, Czech, Polish, Traditional Chinese, Simplified Chinese, Portuguese (Brazil), Portuguese (European), Turkish, and Hungarian

Environment
- RoHS Compliant

Package Content
- DS109 Main Unit
- Installation CD
- Welcome Note
- Assembling Kit
- AC Power Adapter
- AC Power Cord
- 2M RJ-45 LAN Cable

(1) Hard drive not included.
(2) Fully loaded with Seagate 1TB ST31000520AS hard drive(s) in operation; Two G.R.A.S. Type 40AE microphones, each set up at 1 meter away from the DiskStation front and rear; Background noise: 17.2 dB(A); Temperature: 23.6°C ; Humidity: 58.2%; More details about dB(A) value, check http://www.quietnoise.com/facts.htm
(3) Measured with 1 Seagate 750GB ST3750640NS hard drive. The figures could vary on different environments.
(4) The music can be streamed, but the metadata (ex:title, album) may not be indexed on the iTunes.
(5) User can click and download the file, but not play it in Photo Station as compressed Flash video.
(6) For Mac users, DS109 supports PostScript USB printers only.
(7) 1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.
(8) AC3, AMR, DTS, RV30, RV40, WMA3 codec are not supported.

Networking

SYNOLOGY INC.

Founded in 2000, Synology is a young and energetic company dedicated to developing high-performance, reliable, versatile, and environmentally-friendly Network Attached Storage (NAS) products. Our goal is to deliver user-friendly solutions and solid customer service to satisfy the needs of businesses, home offices, individual users and families.

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